



New Jersey Shore Protection

AMHERST BEACH PROTECTION

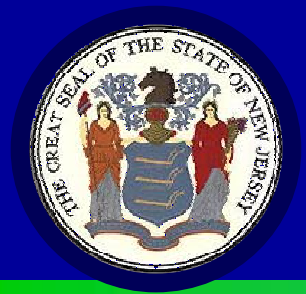


BEACH RETENTION STRUCTURE & AN EXTENSION TO THE SOUTHERN GROIN



New Jersey Dept. of Environmental Protection
Office of Engineering & Construction
Bureau of Coastal Engineering
Benjamin Keiser, Manager

Township of Berkeley
Ocean County, New Jersey
Jason J. Varano, Mayor



New Jersey's Shore Protection Program



**State of New Jersey
Jon S. Corzine, Governor**

**Dept. of Environmental Protection
Mark N. Mauriello, Acting Commissioner**

**Natural & Historic Resources
Amy Cradic, Assistant Commissioner**

**Office of Engineering & Construction
David Rosenblatt, Administrator**

Bureau of Coastal Engineering -

Purpose...

To administer beach nourishment, shore protection and navigational dredging projects throughout the State to:

- Provide for the protection of life and property along the coast**
- Preserve our State's vital coastal resources**
- Maintain safe and navigable waterways**



Shore Protection Fund –

Dedicated for...

“To protect existing development and infrastructure from storm surges, sea-level rise and shoreline migration through dune creation and maintenance, beach nourishment projects, and construction and repair of shore protection structures.”

**\$25 million dedicated annually
Realty Transfer Tax (N.J.S.A. C.13:19-16.1)**



Shore Protection Funding –

How It's Divided

Federal Projects - NJDEP - local sponsor in these projects

- **Studies**
- **Storm Damage Reduction/Shore Protection**
- **Environmental Restoration**

State Projects - Municipalities - local sponsor in these projects

- **Storm Damage Reduction/Shore Protection**

Professional and Technical Services -

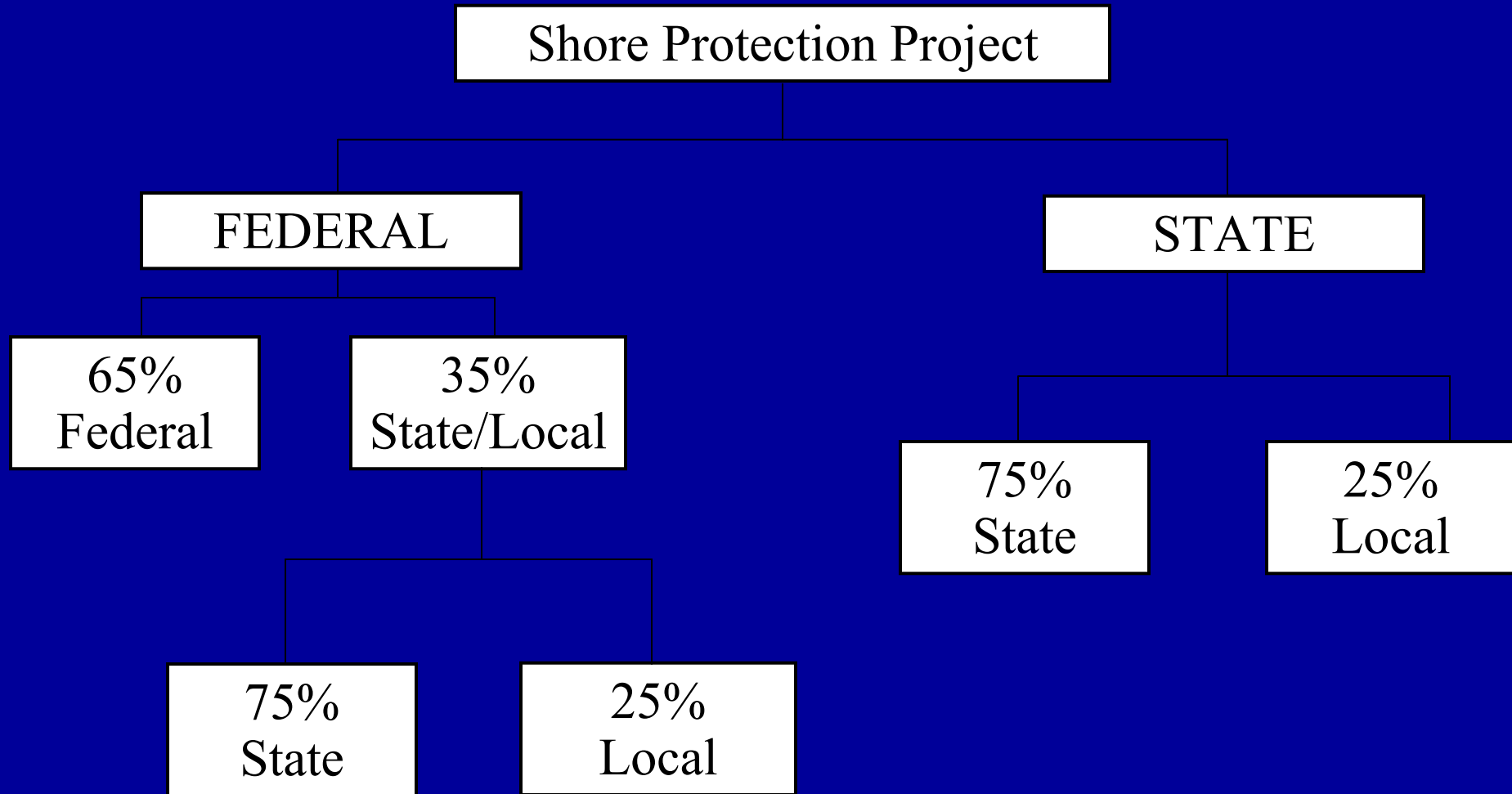
- **Stevens Institute of Technology**
- **Richard Stockton College of New Jersey**
- **Division of Fish and Wildlife**
- **New Jersey Geological Survey**



New Jersey Dept. Environmental Protection
Bureau of Coastal Engineering

Shore Protection Program

Shore Protection Construction – Cost Share Structure





AMHERST BEACH PROTECTION



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1 inch equals 100 feet

2007 Aerial Photograph
Prepared May 2009



AMHERST BEACH PROTECTION —

2009 Project Specifications

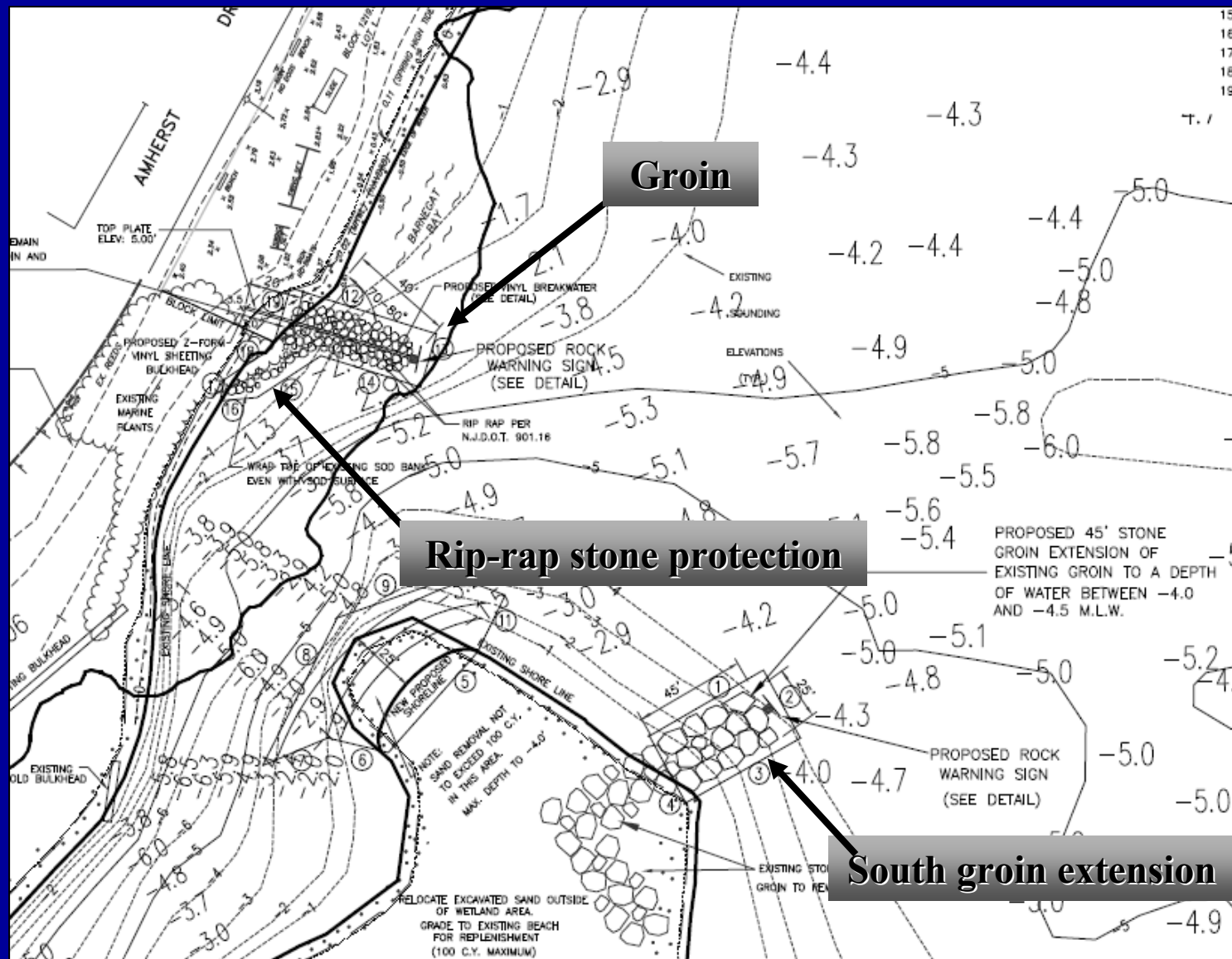


- **Vinyl and Rock Groin**
 - 80 Linear Feet
 - Vinyl Sheeting with 8” timber piles on 5’ centers
 - 20” Rip-rap Stone
- **Groin Extension**
 - 45 Linear Feet
 - 20” Rip-rap Stone with filter fabric under layer
- **Goal: Inhibit the longshore transport of sediment that shoals the mouth of what is known as Amherst Inlet or Berkeley Shores Channel.**





AMHERST BEACH PROTECTION





North Side of Inlet – Looking southwest at location for new groin





North Side of Inlet – Looking Northeast at location of rip-rap and groin





South Side of Inlet —

Looking northerly at existing groin tip across inlet





AMHERST BEACH PROTECTION –

Proposed Project Costs



- **Proposed Project Costs: \$84,825.00**
- **Cost Share:**
 - **75% State = \$63,618.75**
 - **25% Municipality = \$21,206.25**





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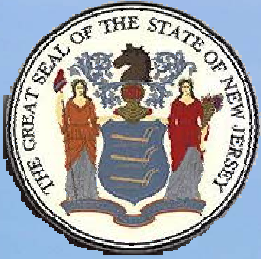
2009 Project Facts



- **Bid Opening: April 24, 2009**
- **Award was to Albert Marine Construction, Inc. in the amount of \$84,825.00**
- **Pre-Construction Meeting: May 11, 2009**
- **Notice to Proceed: June 1, 2009**
- **Construction Start: June 5, 2009**
- **Proposed Construction End Date: July 3, 2009**



New Jersey Department of Environmental Protection ***Shore Protection Program***



www.nj.gov/dep/shoreprotection



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